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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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SKJERVEN MORRILL LLP
25 METRO DRIVE
SUITE 700
SAN JOSE, CA 95110

EXAMINER

RAINA, PRADUMN K

ART UNIT	PAPER NUMBER
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2177

DATE MAILED: 09/11/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/583,133

Applicant(s)

LEE ET AL.

Examiner

Pradumn K Raina

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 May 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Drawing

1. The drawings are objected to under 37 CFR 1.83(a) because they fail to show necessary textual labels of features or symbols in Fig. 1, elements 112, 114, 118, 144 and 145; Fig. 2, elements 112, 144 and 200; Fig. 3, elements 130, 302, 304, 306, 308, 310, 310A, 310B, 312, 314, 316, 320, 322 and 324; Figures 3A and 3B, elements 130, 320 and 322; Figures 3C and 3D, element 130; as described in the specification. For example, placing a label, "host system" with element 112, "storage device" with element 114, "host bus" with element 118, "bus" with elements 144 and 145 of fig. 1, would give the viewer necessary detail to fully understand this element at a glance. In addition, textual labels for number elements in figures would be needed to fully and better understand these figures without substantial analysis of the detailed specification as described in the specification.

Optionally, applicant may wish to include a table next to the present figure to fulfill this requirement. See 37 CFR 1.83. 37 CFR 1.84(n)(o) is recited below:

"(n) Symbols. Graphical drawing symbols may be used for conventional elements when appropriate. The elements for which such symbols and labeled representations are used must be adequately identified in the specification. Known devices should be illustrated by symbols which have a universally recognized conventional meaning and are generally accepted in the art. Other symbols which are not universally recognized may be used, subject to approval by the Office, if they are not likely to be confused with existing conventional symbols, and if they are readily identifiable.

(o) Legends. Suitable descriptive legends may be used, or may be required by the Examiner, where necessary for understanding of the drawing, subject to approval by the Office. They should contain as few words as possible."

Objection to Specification

2. In page 1, lines 6 - 15 and page 2, lines 10 - 15, applicant incorporated one application 09/539,841 and three applications without any serial numbers. The correction is required at page 1, lines 8 - 15 and page 2, lines 10 - 15. The applicant is required to provide the updated status of the applications.

Examiner Notes:

Incorporation by reference of an application in a printed United States patent constitutes a special circumstance under **35 USC 122** warranting that access of the original disclosure of the application be granted. The incorporation by reference will be interpreted as a waiver of confidentiality of only the original disclosure as filed, and not the entire application file, *In re Gallo*, 231 USPQ 496 (Comm'r Pat. 1986). If applicant objects to access to the entire application file, two copies of the information incorporated by reference must be submitted along with the objection. Failure to provide the material within the period provided will result in the entire application (including prosecution) being made available to the petitioner. The Office will not attempt to separate the noted materials from the remainder of the application.

Compare *In re Marsh Engineering Co.*, 1913 C.D. 183 (Comm'r Pat. 1913). See **MPEP 608.01(p)**.

Claim Rejection - 35 USC 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1- 35 are rejected under 35 U. S. C. 102(b) as being anticipated by Sciupac et al. (US Patent 5,029,125).

Sciupac et al. anticipated independent **claim 1** by the following:

"A method for storing and locating a plurality of file system objects on a WORM storage medium, wherein information can be written to, but not erased from, the storage medium" at Col. 1, lines 1 – 13;

".....allocating a writeable area on the storage medium" at Col. 5, lines 14 - 28;

"generating a system sector" at Col. 5, lines 61 - 64;

"..... the system sector includes system information regarding the file system objects on the storage medium" at Col. 5, lines 43 - 50;

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“writing the system sector starting at one end of the writeable area”

at Fig. 12, Col. 7, lines 17 – 26;

“writing the content of any of the file system objects at the other end of the writeable area “ at Fig. 13, Col. 7, lines 26 – 33.

Sciupac anticipated **Claim 2** by the same rationale as stated in claim 1 argument by the following: “The method of Claim 1, further comprising: generating an updated system sector whenever there is a change in the file system objects in the writeable area” at Col. 8, lines 42 - 47 and Fig. 14;

“....writing the updated system sector on the storage medium in a location where the updated system sector will be read before any previously written system sectors.” at Fig. 14.

Sciupac anticipated **Claim 3** by the same rationale as stated in claim 2 argument by the following: “The method of Claim 2, wherein generating the updated system sector comprises: generating a header for the sector” at Col. 7, lines 10 - 12;

“.....the header includes the most recent information for accessing at least one or more of the file system objects on the storage medium that are accessible from a host system.” at Col. 6, Fig. 11, lines 41 – 44.

Sciupac anticipated **Claim 4** by the same rationale as stated in claim 3 argument by the following: "The method of Claim 3, wherein the header further comprises: a sector type parameter that identifies the sector as a system sector."
at Col. 7, lines 10 – 12.

Sciupac anticipated **Claim 5** by the same rationale as stated in claim 3 argument by the following: "The method of Claim 3, wherein the header further comprises: an entry count parameter that identifies the number of entries that are contained within the system sector." at Fig. 5B.

Sciupac anticipated **Claim 6** by the same rationale as stated in claim 3 argument by the following: "The method of Claim 3, wherein the header further comprises: a directory identification parameter that is used to determine when to terminate the process of reading the system sector(s)." at Figures 5A and 5B.

Sciupac anticipated **Claim 7** by the same rationale as stated in claim 3 argument by the following: "The method of Claim 3, wherein the header further comprises: a file identification parameter that is used to determine when to terminate the process of reading the system sector(s)." at Figures 5A and 5B.

Sciupac anticipated **Claim 8** by the same rationale as stated in claim 3 argument by the following: "The method of Claim 3, wherein the header includes: a data block number that indicates the next available writeable location for a file system object." at Fig. 16.

Sciupac anticipated **Claim 9** by the same rationale as stated in claim 2 argument by the following: "The method of Claim 2, wherein generating the updated system sector comprises: generating entries for the sector." at Fig. 14.
"..... the entries include information on the content for file system objects that are written to the storage medium." at Col. 8, lines 1 – 25.

Sciupac anticipated **Claim 10** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein the entries include: a type tag to indicate the type of file system object to which the entry pertains." at; Fig. 5B, Col. 4, lines 67 – 68 and Col. 5., lines 1 – 6.

Sciupac anticipated **Claim 11** by the same rationale as stated in claim 9 argument by the following: The method of Claim 9, wherein at least one of the entries includes: at least one data pointer to indicate the location of the data content for the file system object." at Fig. 14.

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Sciupac anticipated **Claim 12** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein at least one of the entries includes: a byte count to indicate the amount of information included in the content for the file system object." at Fig. 5B.

Sciupac anticipated **Claim 13** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein at least one of the entries includes: "an identifier corresponding to the file system object, wherein the identifier is used to access the file system object." at Fig. 5B.

Sciupac anticipated **Claim 14** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein at least one of the entries includes: " linkage information for accessing portions of the file system object that are stored in fragments on the storage medium." at Fig 16, Col. 8, lines 48 – 55.

Sciupac anticipated **Claim 15** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein at least one of the entries includes: information indicating the relationship of the file system object to another file system object." at Col. 8, lines 42 – 47.

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Sciupac anticipated **Claim 16** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein at least one of the entries includes: information indicating the name of the file system object." at Fig. 5B, Col. 4 lines 67 – 68. and Col. 5, lines 14 – 15.

Sciupac anticipated **Claim 17** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein at least one of the entries includes: information indicating attributes of the file system object." at Figures 5A and 5B.

Sciupac anticipated **Claim 18** by the same rationale as stated in claim 9 argument by the following: "The method of Claim 9, wherein generating the updated system sector further comprises: moving information from a previously written system sector to the updated system sector." at Fig. 14

Claim 19 has the same subject matter as of **claim 1**, except "a data area that includes the content of any file system objects". **Sciupac** teaches the additional limitation as indicated above at Fig. 13, Col. 7, lines 26 – 33 and is essentially rejected for the same reason.

Claim 20 has the same subject matter as of **claim 2**, except "that includes information for accessing the file system objects". **Sciupac** teaches the additional

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limitation as indicated above at Col. 8, lines 42 - 47 and Fig. 14 and is essentially rejected for the same reason." at Fig. 5B.

Sciupac anticipated **Claim 21** by the same rationale as stated in **claim 20** argument by the following: "The storage medium of **Claim 20**, wherein the updated system sector comprises: a header that includes information on the file system objects on the storage medium that are accessible from a host system."

at Col. 8, lines 42 - 47 and Fig. 14;

Sciupac anticipated **Claim 22** by the same rationale as stated in **claim 21** argument by the following: "The storage medium of **Claim 21**, wherein the header further comprises: a sector type parameter that identifies the type of file system sector on the media." at Col. 7, lines 10 - 12.

Sciupac anticipated **Claim 23** by the same rationale as stated in **claim 21** argument by the following: "The storage medium of **Claim 21**, wherein the header further comprises: an entry count parameter that identifies the number of entries that are contained within the system sector." at Fig. 5B.

Sciupac anticipated **Claim 24** by the same rationale as stated in **claim 21** argument by the following: "The storage medium of **Claim 21**, wherein the header

further comprises: an entry count parameter that identifies the number of entries that are contained within the system sector." at Fig. 5B.

Sciupac anticipated **Claim 25** by the same rationale as stated in **claim 21** argument by the following: The storage medium of Claim 21, wherein the header further comprises: a directory identification parameter that is used to determine when to terminate the process of reading the system sector." at Figures 5A and 5B.

Sciupac anticipated **Claim 26** by the same rationale as stated in **claim 21** argument by the following: The storage medium of Claim 21, wherein the header includes: a writeable data block number that indicates the next available location for a file system object." at Fig. 16.

Sciupac anticipated **Claim 27** by the same rationale as stated in **claim 20** argument by the following: "The storage medium of Claim 20, wherein the updated system sector comprises: at least one data pointer to indicate the location of the data content for the file system object.

Sciupac anticipated **Claim 28** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of claim 27, wherein the entries include: a type tag to indicate the type of file system object to which the entry pertains." at Fig. 5B, Col. 4, lines 67 – 68 and Col. 5., lines 1 – 6.

Sciupac anticipated **Claim 29** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of claim 27, wherein each entry includes: at least one data pointer to indicate the location of the data content for the file system object." at Fig. 14.

Sciupac anticipated **Claim 30** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of Claim 27, wherein each entry includes: a byte count to indicate the amount of information included in the content for the file system object." at Fig. 5B.

Sciupac anticipated **Claim 31** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of Claim 27, wherein at least one of the entries includes: an identifier corresponding to the file system object, wherein the identifier is used to access the file system object." at Fig. 5B.

Sciupac anticipated **Claim 32** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of Claim 27, wherein at least one of the entries includes: linkage information for accessing portions of the file system object that is stored in fragments on the storage medium." at Fig 16, Col. 8, lines 48 – 55.

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Sciupac anticipated **Claim 33** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of Claim 27, wherein at least one of the entries includes: information indicating the relationship of the file system object to another file system object." at Col. 8, lines 42 – 47.

Sciupac anticipated **Claim 34** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of Claim 27, wherein at least one of the entries includes: information indicating the name of the file system object." at Fig. 5B, Col. 4 lines 67 – 68. and Col. 5, lines 14 – 15.

Sciupac anticipated **Claim 35** by the same rationale as stated in **claim 27** argument by the following: "The storage medium of Claim 27, wherein at least one of the entries includes:" at Figures 5A and 5B.

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Conclusion

5. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure..

6. Questions concerning the merits of this or an earlier Office Action from the examiner should be directed to Pradumn K. Raina, whose voice line is (703) 305-5380 and fax line is (703) 746-9223.


If attempts to reach the examiner by telephone are unsuccessful, then the examiner's supervisor, John Breene, can be reached at (703) 305-9790.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Group receptionist whose telephone number is (703) 305-9600.

Pradumn K. Raina

Patent Examiner

9/3/02


JOHN BREENE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100